SC METROMAT SRL
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SCHMIDT control instruments

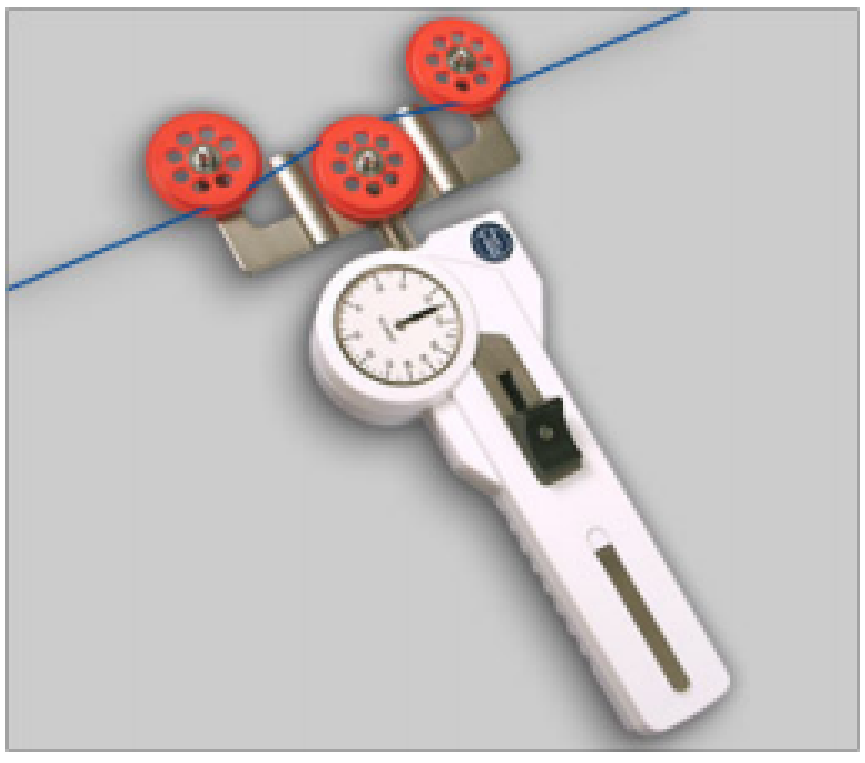
Tensiometr pentru fire, seria DXF.

Tension Meter DXF

4 Tension ranges from 20 - 120 cN to 50 - 1000 cN

Mechanical tension meter with large guide rollers (32 mm groove diameter) and large center distance to minimize bending of materials
Hand-held unit for sensitive material as optical fibres, carbon fibres, technical fibres etc.

Tension meter with special guides on the bracket assembly for easy thread



Tension meter DXF-120-T with plastic rollers

Special Features

- The analog display shows changing and fluctuating tensions fast and enables an optimal process adjustment

- Large, V-grooved guide rollers with 32 mm groove diameter, ball-bearing mounted
- Large bending radius assures gentle handling of the material being measured
- Roller shifting mechanism ensure easy acquisition of the running material
- Special guides on the bracket assembly permit easy material acquisition
- Built-in mounting holes permit fixed installation for continuous tension measurement
- Special finger support located on the rear side reduces the effort to move the outer roller assembly



Finger Support: We recommend mounting a finger support for higher tension ranges

Note: This model does not include a material thickness compensator

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Standard Features

- Everything in operator's view:
  - the guide rollers
  - the measured material
  - the readings
- Each instrument is individually calibrated for highest accuracy
- 41 mm Ø scale
- Tension meter with rugged aluminium housing
- Certificate of Compliance with the order 2.1 according EN 10204 is included
- Optionally available: Inspection Certificate 3.1 according EN 10204 with calibration report

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Available Models

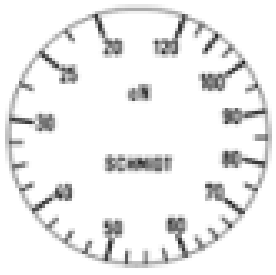
Model	Tension Ranges cN	Measuring Head Width* mm	SCHMIDT Calibration Material**
DXF-120	20 - 120	140	PA: 0.12 mm Ø
DXF-200	20 - 200	140	PA: 0.12 mm Ø
DXF-400	20 - 400	140	PA: 0.20 mm Ø
DXF-1000	50 - 1000	140	PA: 0.30 mm Ø

Other tension ranges available on request.
Other units of measure available, such as g.
* Outer distance between outside guide rollers
** Suitable for 95 % of applications - PA = Polyamide Monofilament

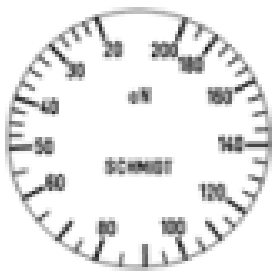
Calibration to customized material:
If process material differs significantly from the SCHMIDT calibration material in diameter, rigidity or shape, special calibration using customer supplied samples is recommended. For this purpose a material sample of about 5 m should be supplied.

Scales

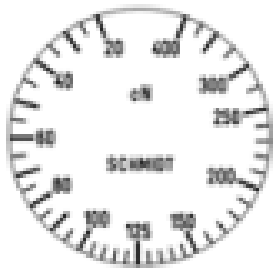
Click to get larger image



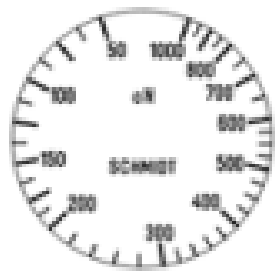
Model DXF - 120



Model DXF - 200



Model DXF - 400



Model DXF - 1000

SCHMIDT scales are manufactured according to the most stringent quality requirements. Printed scales are not used. Instead, each scale is individually marked for the instrument involved. This ensures highest quality. Our special procedure makes it possible to provide tension meters

- calibrated to custom supplied material
- fine tuned to a specific tension range
- other units of measure such as g

Guide Rollers

Order-Code	Line Speed v_{max} ...m/min	Roller Material
Standard	4000	Hardcoated aluminium
Code T	4000	Plastic (PVC) red

Click the order-code, to get picture and drawing of the guide rollers

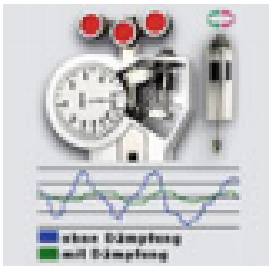
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Spare Rollers

Click picture to get an overview for the guide rollers

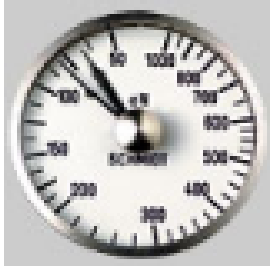
Attachment

Code A



Air Damping
(for tension range 20 - 400 cN up to max. 400 - 5000 cN)
for steady reading when tension fluctuates

Click picture for more information



Code M

Memory Pointer
Retains the highest measured value (Peak). Available for mechanical tension meters.

Calibration Report (optional)

Inspection Certificate 3.1 according DIN EN 10204
including a calibration report is optional available

Click picture for more information

Ordering Example

To place an order	**Model with tension range**		**Code for guide rollers** (if not standard)		**Code attach-ment**		**Complete Order No.**
Please indicate the com-plete order number.:	DXF-200	+	T	+	A-M	=	DXF-200-T-A-M

Delivery Includes



Tension meter with carrying case, operating instruction in german or english, (as requested), Certificate of Compliance with the order 2.1 according EN 10204 free of charge

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Dimensions

For PDF-file please
click picture

Specifications

Calibration:	According to SCHMIDT factory procedure
Accuracy:	±1 % full scale or ±1 graduation on scale
Scale diameter:	41 mm
Temperature range:	10 - 45 °C
Air humidity:	85 % RH, max.
Housing material:	Die-cast aluminium
Dimensions:	See dimensions above
Weight, net (gross):	Approx. 500 g (1000 g)

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